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Exhibit P-40, Budget Line Item Justification: FY 2018 Army										Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security							P-1 Line Item Number / Title: B63000 / Defensive CYBER Operations					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: 0605041A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	53.632	53.436	-	53.436	55.203	54.898	53.926	84.902	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	53.632	53.436	-	53.436	55.203	54.898	53.926	84.902	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	53.632	53.436	-	53.436	55.203	54.898	53.926	84.902	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:
 This budget line is a continuation of CYBER efforts originally resourced in Information System Security Program, TA0600.

This budget line does not procure weapons systems or produce end items for weapons systems. All IT procurements consist of commercial off-the-shelf (COTS) solutions; all quantities and unit costs vary by system configuration and site.

The Army's Defensive Cyberspace Operations (DCO) activities are a construct of active cyberspace defenses which provide synchronized, real-time capability to discover, detect, analyze, and mitigate threats and vulnerabilities to DoD networks and systems. They provide initial capabilities that enable passive and active cyberspace defense operations to preserve friendly cyberspace capabilities and protect data, networks, net-centric capabilities, and other designated systems. DCO consists of the following critical capabilities:
 -DCO-Infrastructure (DCO-I) Tactical and Enterprise (hardware and software baseline for remote cyber maneuver based on Defense Advanced Research Projects Agency (DARPA) Plan X)
 -Cyber Protection Team (CPT) support (tools that reside inside DCO-I)
 -Web Vulnerability Scanning (software baseline to secure key cyber terrain and protect DoD websites)
 -Big Data Analytics (leverage Defense Information System Agency (DISA) Acropolis analytics)

Defensive Cyber teams design, build, and test advanced Cyber tools and infrastructure than enables active defense of the network from tactical Command Posts up through Post Camp and Station Home Station Mission Command. This capability will enable integration of the Cyber Mission Force with Regional and Local Cyber Network Defense elements. These tools will provide cutting edge hardware and software, integrated with existing infrastructure and tools to facilitate Active Defensive Cyber operations. DCO responds to unauthorized activity or alerts/threat information against the Army enterprise, and leverages intelligence, counterintelligence, law enforcement, and other military capabilities. It includes outmaneuvering adversaries taking or about to take offensive actions against defended networks, or otherwise responding to internal and external cyberspace threats. Internal defense measures include mission assurance actions to dynamically reestablish, re-secure, reroute, reconstitute, or isolate degraded or compromised local networks to ensure sufficient cyberspace access for commanders.

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ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A			Other Related Program Elements: 0605041A			
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B63103 / DEFENSIVE CYBER TOOLS	P-5a			- / -	- / -	- / 53.632	- / 53.436	- / -	- / 53.436
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / 53.632	- / 53.436	- / -	- / 53.436
<small>*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.</small>										
<small>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</small>										

Justification:
 FY 2018 DCO Enterprise Infrastructure Base procurement dollars in the amount of \$53.436 million supports the procurement of equipment, engineering, integration, configuration management, testing, training, accreditation, and fielding of defensive cyberspace infrastructure and capabilities as outlined in the US Army Training and Doctrine Command (TRADOC) Information Systems Capability Development Document (IS CDD) for DCO; US Army Cyber Command (ARCYBER) Operational Needs Statement (ONS) 14-19545 for DCO-I dated 6 Jan 14; ONS 14-20079 for CPT Support; ONS 14-19420 for Web Scanning dated 29 Oct 13; and ONS 14-19419 for Big Data Analytics dated 29 Oct 13.

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Exhibit P-5, Cost Analysis: FY 2018 Army												Date: May 2017						
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64						P-1 Line Item Number / Title: B63000 / Defensive CYBER Operations						Item Number / Title [DODIC]: B63103 / DEFENSIVE CYBER TOOLS						
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		-		53.632		53.436		-		53.436				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		-		53.632		53.436		-		53.436				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		-		53.632		53.436		-		53.436				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Thousands)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
BIG DATA SOFTWARE ^(†)	-	-	-	-	-	-	1,072.600	5	5.363	-	-	2.000	-	-	-	-	-	2.000
DCO-I ENTERPRISE ENGINEERING	-	-	-	-	-	-	3,218.000	1	3.218	-	-	13.800	-	-	-	-	-	13.800
DCO-I ENTERPRISE HARDWARE ^(†)	-	-	-	-	-	-	5,685.000	5	28.425	-	-	13.800	-	-	-	-	-	13.800
CPT SOFTWARE ^(†)	-	-	-	-	-	-	2,788.800	5	13.944	-	-	15.590	-	-	-	-	-	15.590
WEB VULNERABILITY SOFTWARE ^(†)	-	-	-	-	-	-	536.400	5	2.682	-	-	8.246	-	-	-	-	-	8.246
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	53.632	-	-	53.436	-	-	-	-	-	53.436
Subtotal: Flyaway Cost	-	-	-	-	-	-	-	-	53.632	-	-	53.436	-	-	-	-	-	53.436
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	53.632	-	-	53.436	-	-	-	-	-	53.436
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: FY 2018 Army									Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64			P-1 Line Item Number / Title: B63000 / Defensive CYBER Operations						Item Number / Title [DODIC]: B63103 / DEFENSIVE CYBER TOOLS			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
BIG DATA SOFTWARE		2017	CHESS / ACC-RI	C / IDIQ	ACC-RI, IL	Jan 2017	Feb 2017	5	1,072.600	N		
DCO-I ENTERPRISE HARDWARE		2017	CHESS / ACC-RI	C / IDIQ	ACC-RI, IL	Jan 2017	Feb 2017	5	5,685.000	N		
DCO-I ENTERPRISE HARDWARE		2018	CHESS / ACC-RI	C / IDIQ	ACC-RI, IL	Mar 2018	Apr 2018	0	0.000			
CPT SOFTWARE		2017	CHESS / ACC-RI	C / IDIQ	ACC-RI, IL	Jan 2017	Feb 2017	5	2,788.800			
CPT SOFTWARE		2018	CHESS / ACC-RI	C / IDDQ	ACC-RI, IL	Feb 2018	Mar 2018	0	0.000			
WEB VULNERABILITY SOFTWARE		2017	CHESS / ACC-RI	C / IDIQ	ACC-RI, IL	Jan 2017	Feb 2017	5	536.400			
WEB VULNERABILITY SOFTWARE		2018	CHESS / ACC-RI	C / IDIQ	ACC-RI, IL	Feb 2018	Mar 2018	0	0.000			

Remarks:

Commercial-Off-The-Shelf (COTS) products will be procured from the Computer Hardware Enterprise Software and Solutions (CHESS) contract. CHESS is the Army's designated primary source for commercial information technology (IT). CHESS provides a no-fee flexible procurement strategy through which an Army user may procure COTS IT hardware, software and services via an e-commerce based process. CHESS offers simple, straightforward contract vehicles through its online Army e-commerce ordering system, the IT e-mart. These contracts provide continuous vendor competition for best value and consolidation of requirements to maximize cost avoidance and leverage the Army's buying power. Contracts will be worked through Army Contracting Command Rock Island (ACC-RI).